



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D3407-041**  
**Job Sheet 170898**



Part No: D3407-041

Job Qty: 10 ea

Part Name: Tow Ring



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/23/18

Job Tracking No:

Due Date: 2/16/18

Created By: Mario Poulin

Type: Stock

Description:

Note: IPP Rev:A 05.10.14 New issue KJ/EC IPP Rev:B 08-09-09 revE as per dwg DD verified by:EC IPP REV:F  
17.11.02 AS PER DWG REV.G DD VERF:JFS

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |              | Sign-off              |
|-------|--------------------|--------|------------|----------|-----------|---------|-----------------------|--------------|-----------------------|
|       |                    |        |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time    |                       |
| 90    | Start up Operation | 10 Ea  |            | 2/15/18  | 0.00      | 0.00    | Start Up Large Fab-1  |              | <i>ABC</i>            |
| 100   | Large Fab          | 10 pcs |            | 2/15/18  | 0.00      | 2.19    | Large Fab 1           |              | <i>ABC</i>            |
| 110   | QC                 | 10 pcs |            | 2/15/18  | 0.00      | 0.00    | QC9                   |              | <i>Q</i>              |
| 120   | QC                 | 10 pcs |            | 2/15/18  | 0.00      | 0.00    | QC5                   |              | <i>Q</i>              |
| 130   | Powdercoat         | 10 pcs |            | 2/16/18  | 0.00      | 0.38    | Powdercoat2           |              | <i>21 FEB 09 2018</i> |
| 140   | QC                 | 10 pcs |            | 2/16/18  | 0.00      | 0.00    | QC3                   |              | <i>21 FEB 12 2018</i> |
| 150   | Packaging          | 10 pcs |            | 2/16/18  | 0.00      | 0.00    | Packaging3-1          | <i>57530</i> | <i>21 FEB 12 2018</i> |
| 160   | QC21-SA            | 10 Ea  |            | 2/16/18  | 0.00      | 0.00    | QC21                  |              | <i>21 FEB 12 2018</i> |

Part Op 100 - Weld D3407-1/-5 using welding rod TIG174 as per Dwg D3407 & QSI 004 A/R TIG174 ROD-89

Descriptions: Batch: *M102576*

130 - \*\*Mask Threaded Section\*\* START TIME: *11:15* OVEN TEMPERATURE: *400°* FINISH TIME:

*11:45*

*M 138462*

### Job BOM

| Part / Item | Component Name | Quantity     | Operation             | Container |
|-------------|----------------|--------------|-----------------------|-----------|
| D3407-1     | Stem           | 10 Ea (1 ea) | 90-Start up Operation |           |
| D3407-5     | Ring           | 10 Ea (1 ea) | 90-Start up Operation |           |

### Part Specifications

Specifications could not be found.

Plex 1/23/18 1:50 PM dart.poulin.mario

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
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| Work Order: _____<br><br>Part I<br><br>NCR # _____<br><br>Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>DISPOSITION</b><br><br><div style="border: 1px solid black; padding: 5px; transform: rotate(-90deg); transform-origin: center;"> <b>Start up Operation 02/07/18</b><br/> <b>Job No: 170898</b> </div>                                                                                                                                                                                                                | <b>AGAINST DEPARTMENT/PROCESS</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Skid-tube <input type="checkbox"/></td> <td style="width: 25%;">Cross tube <input type="checkbox"/></td> <td style="width: 25%;">Water Jet <input type="checkbox"/></td> <td style="width: 25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Cross tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                            | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                      | Engineering <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                              | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cross tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                     | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Engineering <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                      | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quality <input type="checkbox"/>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Finishing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                      | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Other <input type="checkbox"/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Composite <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                      | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
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| <b>FAULT CATEGORY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> <input type="checkbox"/> Temperature/Cure<br/> <input type="checkbox"/> Setup<br/> <input type="checkbox"/> M/Route<br/> <input type="checkbox"/> Mark/Damage/Defect<br/> <input type="checkbox"/> Section Incomplete/Unqualified<br/> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Sink<br/> <input type="checkbox"/> Too Short<br/> <input type="checkbox"/> Instructions Incomplete/Unclear<br/> <input type="checkbox"/> Drill Holes         </td> <td style="width: 33%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set<br/> <input type="checkbox"/> Mislabeled<br/> <input type="checkbox"/> Fit/Function<br/> <input type="checkbox"/> Misaligned/off center         </td> <td style="width: 33%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Dimensions<br/> <input type="checkbox"/> Over/Under tolerance<br/> <input type="checkbox"/> Part Incorrect<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Part Moved<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Misread<br/> <input type="checkbox"/> Turning Sequence         </td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | <input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Setup<br><input type="checkbox"/> M/Route<br><input type="checkbox"/> Mark/Damage/Defect<br><input type="checkbox"/> Section Incomplete/Unqualified<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Sink<br><input type="checkbox"/> Too Short<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Drill Holes | <input type="checkbox"/> Power Loss/Surge<br><input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Fit/Function<br><input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Turning Sequence |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
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**Dart Aerospace Ltd.**  
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 www.dartaerospace.com

**DART AEROSPACE**  
**S040252**

**D3407 - 041**  
**PART NO: S040252**  
**Original Serial #:**  
**Revision:**  
**Operation:**  
**Change No:**

**Tow Ring**

Remarks/Chatter

Manufacturing Process

Past Due

OTHER :

|                    |                          |
|--------------------|--------------------------|
| Environment        | <input type="checkbox"/> |
| Design             | <input type="checkbox"/> |
| Doc/Data           | <input type="checkbox"/> |
| Equip/Tooling      | <input type="checkbox"/> |
| Handling/Pre       | <input type="checkbox"/> |
| Material           | <input type="checkbox"/> |
| Internal Transport | <input type="checkbox"/> |
| Tribal Knowledge   | <input type="checkbox"/> |
| LOA                | <input type="checkbox"/> |
| Substation         | <input type="checkbox"/> |
| Past Expiry Date   | <input type="checkbox"/> |
| Misidentified      | <input type="checkbox"/> |